

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1PW

Applicant: James D. Turner

Title: METHOD, APPARATUS AND ARTICLES OF MANUFACTURE FOR COMPUTING THE SENSITIVITY PARTIAL DERIVATIVES OF LINKED MECHANICAL SYSTEMS

Docket No.: 875.072US1  
Filed: June 24, 2003  
Examiner: Unknown

Serial No.: 10/609,327  
Due Date: N/A  
Group Art Unit: 2122

**MS Amendment**

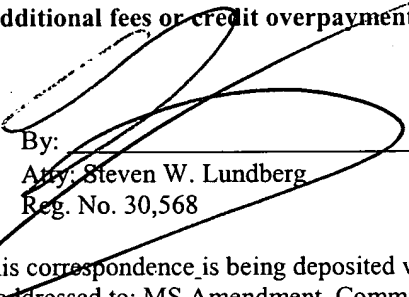
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- X Return postcard.
- X Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 6 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a **PETITION FOR EXTENSION OF TIME** for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Customer Number 21186

By:   
Atty. Steven W. Lundberg  
Reg. No. 30,568

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 16<sup>th</sup> day of February, 2006.

Name

Signature

JAMES KARYUSIK  
Name  
James Karyusik  
Signature  
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
(GENERAL)

S/N 10/609,327



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|             |  |                 |            |
|-------------|--|-----------------|------------|
| Applicant:  | James D. Turner  | Examiner:       | Unknown    |
| Serial No.: | 10/609,327   | Group Art Unit: | 2122       |
| Filed:      | June 24, 2003  | Docket:         | 875.072US1 |
| Title:      | METHOD, APPARATUS AND ARTICLES OF MANUFACTURE FOR<br>COMPUTING THE SENSITIVITY PARTIAL DERIVATIVES OF LINKED<br>MECHANICAL SYSTEMS |                 |            |

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**INFORMATION DISCLOSURE STATEMENT**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

Serial No :10/609,327

Filing Date: June 24, 2003

Title: METHOD, APPARATUS AND ARTICLES OF MANUFACTURE FOR COMPUTING THE SENSITIVITY PARTIAL DERIVATIVES OF LINKED MECHANICAL SYSTEMS

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Dkt: 875.072US1

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

JAMES D. TURNER

By his Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

P.O. Box 2938

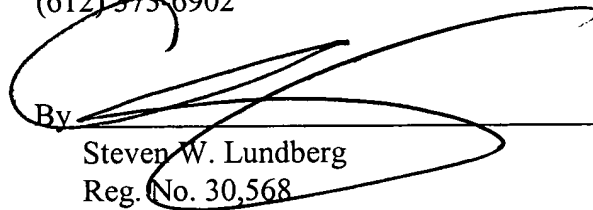
Minneapolis, MN 55402

(612) 373-6902

Date

2/15/2006

By



Steven W. Lundberg

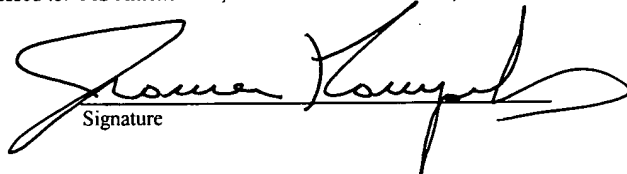
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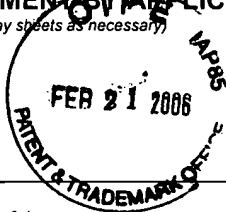
JAMES KAUYSIK

Signature



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)

Complete if Known

|                      |               |
|----------------------|---------------|
| Application Number   | 10/609,327    |
| Filing Date          | June 24, 2003 |
| First Named Inventor | Turner, James |
| Group Art Unit       | 2122          |
| Examiner Name        | Unknown       |

Sheet 1 of 1

Attorney Docket No: 875.072US1

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
|                    |                       | BISCHOF, CHRISTIAN, et al., "ADIFOR - Generating Derivative Codes From Fortran Programs", <u>Scientific Programming</u> , 1, (1992), 11-29  |                |
|                    |                       | BISCHOF, CHRISTIAN, et al., "ADIFOR 2.0 Users' Guide (Revision D)", <u>Mathematics and Computer Science Division Technical Memorandum No. 192 and Center for Research on Parallel Computation Technical Report CRPC-95516-S</u> , (June, 1998), 99 pgs.         |                |
|                    |                       | EBERHARD, PETER, et al., "Automatic Differentiation of Numerical Integration Algorithms", <u>Mathematics of Computation</u> , 68(226), (April, 1999), 717-731   |                |
|                    |                       | GRIEWANK, ANDREAS, "On Automatic Differentiation", In: <u>Mathematical Programming: Recent Developments and Application</u> , Iri, M. Editors, et al., Kluwer Academic Publishers, Amsterdam, (1989), 83-108  |                |
|                    |                       | HOVLAND, PAUL, et al., "Adaptive SOR: A Case Study in Automatic Differentiation of Algorithm Parameters", <u>Technical Report ANL/MCS-P673-0797</u> , Mathematics and Computer Science Division, Argonne National Laboratory, Argonne, IL, (July 2, 1997), 1-6  |                |
|                    |                       | PRYCE, J D., et al., "AD01, a Fortran 90 Code for Automatic Differentiation", <u>Technical Report RAL-TR-1998-057</u> , Rutherford Appleton Laboratory, Oxfordshire, England, (September 11, 1998), 28 pgs.   |                |

**EXAMINER****DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached